



ANIMAL &
VETERINARY
SERVICE

A cluster of NParks

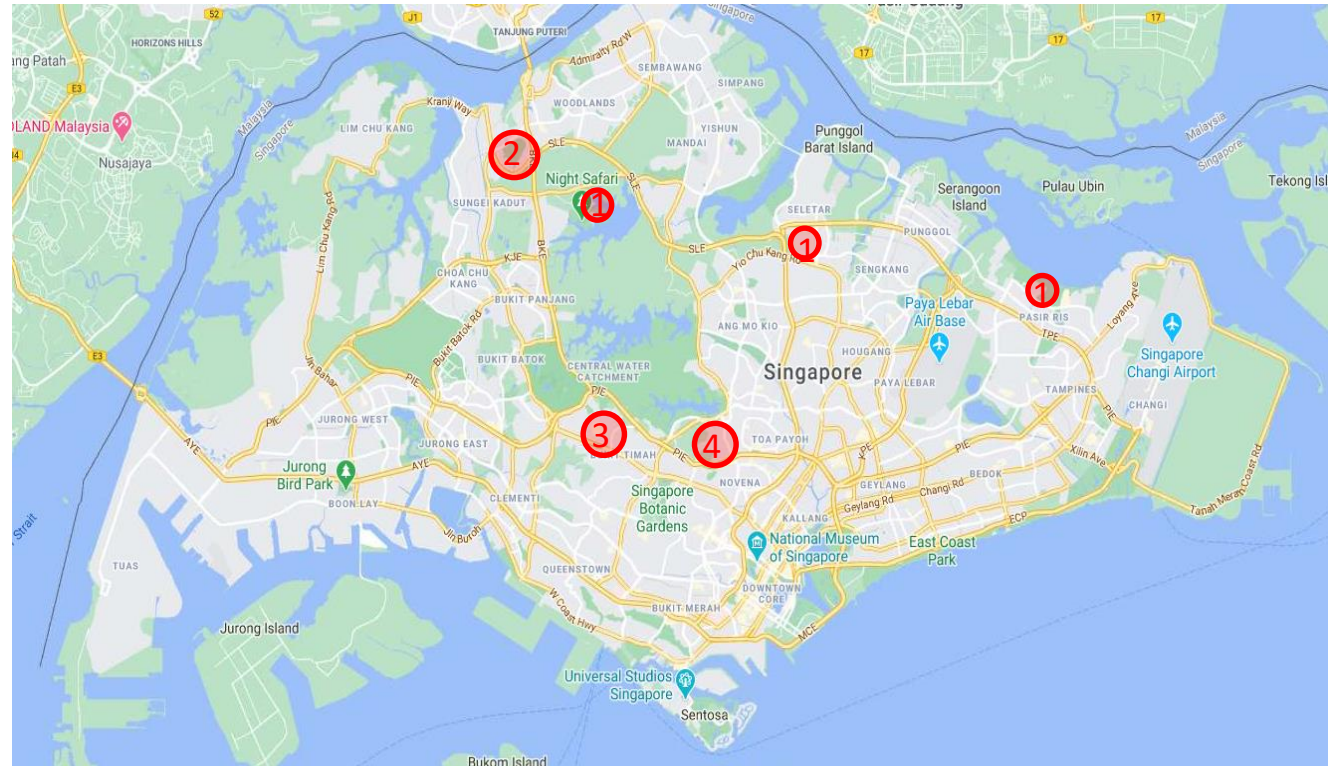
AFRICAN HORSE SICKNESS SURVEILLANCE IN SINGAPORE

Agenda

- Equine Population
- Import Control
- Local Biosecurity Measures
- Stakeholder Engagement
- Surveillance

Equine Population

- 11 Equine establishments
 - Spread out across Singapore in clusters
 - Riding / Polo / Racing / Zoo
- Total population of 1710 equids

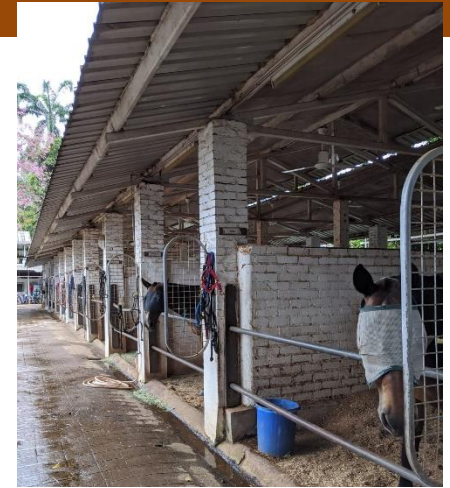


Import Measures

- Restriction of imports from AHS infected countries
- Continual inspections at border checkpoints as well as at approved quarantine station
- Fumigation of feed; beddings and equid equipment could be imposed at land checkpoints

Local Biosecurity Measures

- NParks/AVS inspections
 - Bi-weekly inspections at all establishments
 - Monitor level of preparedness and advise on improvements
- Biosecurity measure for equine establishments
 - Daily health checks and temperature monitoring
 - Record of all horse movement out of and between establishments
 - Prompt reporting of all suspect cases of AHS
- Vector control
 - Routine environmental vector control
 - Vector protected stables
 - Restriction of horse movement during dusk and dawn
 - Application of insect repellents / insecticides



Communications / Engagement

- Communications with equine establishments
 - 3 circulars sent to all equine establishments and veterinarians (27 Apr, 25 Aug, 7 Sep)
 - Regional updates
 - Vigilance and preparedness for AHS
 - Images of clinical signs of AHS
 - Examples of vector-protected stables
- Stakeholder engagements
 - Meetings with equine establishments
 - Preparation of contingency plans
 - Risk mitigation measures

Surveillance

- Clinical surveillance
 - Daily monitoring of health and temperature by equine establishments
 - Bi-weekly official inspection of horses and premises
- Serological surveillance
 - Horses
 - 5% design prevalence, 97.5% sensitivity and 99.5% specificity
 - Zoological equids
 - Total of 136 samples
 - 131 horses
 - 5 zoological equids
- Virological surveillance
 - Follow up confirmation for serological detections



Vector Surveillance

- Collaboration with NEA/EHI to determine vector population in Singapore
- Biting midges and mosquitoes
 - Significantly lower numbers inside stables
 - Morphological and molecular identification of biting midge species is ongoing



THANK YOU